



DATA SHEET

For research use only. Not for use in humans.

Reagent:	J-Lat Full Length Cells (6.3)
Catalog Number:	ARP-9846
Lot Number:	190381
Release Category:	C
Provided:	Each vial of ARP-9846 contains approximately 1.73×10^6 cells in 0.8 mL of Gibco Recovery Cell Culture Freezing Medium. Post-thaw viability was 61%.
Cell Type:	Jurkat – T lymphocyte cell line
Propagation Medium:	The recommended propagation medium is 90% RPMI 1640 medium supplemented with 10% fetal bovine serum and 2 mM L-glutamine.
Freeze Medium:	The recommended freeze medium is Gibco Recovery Cell Culture Freezing Medium.
Growth Characteristics:	ARP-9846 grows in suspension with a small, spherical morphology, usually singly but some clumping has been noted. There are no special requirements for thawing and reestablishing the culture. Split cultures at 1:3 at 1×10^6 cells per mL.
Sterility:	Tests for bacteria, fungi and mycoplasma were negative.
Description:	ARP-9846 is a Jurkat-based cell line containing a full-length integrated HIV-1 genome that expresses GFP upon activation. The genome generates incomplete virions due to a frameshift in the Env gene.
Special Characteristics:	<p>ARP-9846 was derived from Jurkat cells infected with the packaged retroviral construct HIV-R7/E-/GFP, which is a full-length HIV-1 genome with a non-functional Env due to a frameshift, and GFP in place of the Nef gene. The full-length construct secretes incomplete viral particles (capsids). The cells express low to undetectable levels of GFP under basal conditions. ARP-9846 is suited to study HIV latency and reactivation.</p> <p>The clones in this series are: 6.3 (ARP-9846), 8.4 (ARP-9847), 9.2 (ARP-9848), 10.6 (ARP-9849), and 15.4 (ARP-9850). Please see Table I in the reference publication for differences between these clones in GFP and p24 expression upon stimulation with TNF-α.</p>
Recommended Storage:	Keep at -100°C or colder, preferably in the vapor phase of a liquid nitrogen freezer.
Contributor:	Dr. Eric Verdin
Reference:	Jordan, A., D. Bisgrove and E. Verdin. "HIV Reproducibly Establishes a Latent Infection after Acute Infection of T Cells <i>in vitro</i> ." <u>EMBO J.</u> 22 (2003): 1868-1877. PubMed: 12682019 .
Citation:	Acknowledgment for publications should read "The following reagent was obtained through the NIH HIV Reagent Program, Division of AIDS, NIAID, NIH: J-Lat Full Length Cells (6.3), ARP-9846, contributed by Dr. Eric Verdin." Also include the reference cited above in any publication.
Biosafety Level: 2	Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. <u>Biosafety in Microbiological and Biomedical Laboratories</u> , 6th ed. Washington, DC: U.S. Government Printing Office, 2020; see www.cdc.gov/biosafety/publications/bmbl5/index.htm .

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